Human Machine Interface (HMI) Systems

HMI Systems provide the controls by which a user operates a machine, system, or instrument. Sophisticated HMI Systems enable reliable operations of technology in every application, including high-speed trains, CNC machining centers, semiconductor production equipment, and medical diagnostic and laboratory equipment. HMI Systems encompass all the elements a person will touch, see, hear, or use to perform control functions and receive feedback on those actions. Read this elaborate article at http://bit.ly/gkzFox

7 Major Ways We're Digitizing Our World, And 3 Reasons We Still Want Hardcopies

The digitization of our world has been a forward march for years now; still, it might be surprising to step back and look at how physical copies of our stuff have changed into something else entirely. And even more surprising might be to go beyond the debate of the level of pleasantness of reading a paperback book versus an e-book on a Kindle and look at how digitizing everything might save space and shrink the environmental footprint of everything we produce, but also put the longevity of our information at risk. Read it at http://bit.ly/fWGhpx

Top 9 Facebook Time Wasters to Avoid

With all its meaningfulness as an amazing tool to connect and share with friends, family and professional contacts on the web, Facebook can also be a plain simple waste of time. It's not that we can't spend some time taking a test, we all like to have fun and entertain ourselves on the web. But Facebook's ability to constantly hit you with more and more quizzes, applications and various time wasters can lead you to hours lost if you don't use it with care. This article at http://bit.ly/ediCUP lets you know which are the top time wasters to avoid when logged in.

Forget Google: Use the 7 Greenest Search Engines

If you're reading this, you use a search engine every day. Whether it's Google or Yahoo or whatever, search engines are the primary way that we find information and news. A while back, Google came under scrutiny when a study surfaced showing that each search processed created 1-10 grams of CO_2?which adds up to a lot of carbon when there are 200 million searches being made every hour or so. So here's some news you might actually find useful: you can make all that online searching exponentially greener. Each of these 7 search engines listed at http://bit.ly/eSC2y1 either work to green up the search process in general, donate ad revenue to various green causes, or do their part to ease the burden of energy consumption.

Server leasing, in-place upgrades more economical than purchase model

There's no single approach to managing investments with server infrastructure. From outright purchasing to leasing and periodical upgrades, enterprises take many routes. This whitepaper details a TCO analysis published by the Robert Frances Group (RFG), which demonstrates how a Fair Market Value (FMV) leasing approach coupled with in-place upgrades is a far more economical approach to server management for Unix server farms with increasing workloads, compared to purchasing servers. This approach can reduce both, Capex and Opex by more than 17 percent over a five-year period, bypasses the need for 70 percent additional floor space, and eliminates the administrative overhead of added server configurations. The RFG report at http://bit.ly/fqm0Ys takes example of the IBM Power Systems In-place Upgrades to explain their analysis.

Software Quality Assurance Podcast with Dr. Murali Chemuturi

Listen this Business901 podcast and interview (51 min) with Dr. Murali Chemuturi, an information technology and software development subject matter expert, hands-on programmer, author, consultant and trainer at http://bit.ly/h5YNAP . This podcast is centered on Software Quality Assurance and what Murali considers best practice. Ii is found his position quite different than the Agile and Kanban Software people according to the interviewer. Dr. Murali Chemuturi is a speaker at the CONSEG-2011 at Bangalore.

Top 10 server virtualization tips of 2010

In 2010, the server virtualization market saw the hypervisor battle between Microsoft and VMware rage on, while IT pros grappled with the concept of private cloud computing. Acquisitions, announcements and new products altered the virtualization landscape as the new century's first decade came to a close. Through it all, we brought you tips and advice on the technology you need to know about: Everything from home labs to high availability, and XenServer editions to Hyper-V storage disks. Now we recap the year's most

popular server virtualization tips so you can brush up on your knowledge. Read the full story at
http://bit.ly/hFnLsc

Top 25 Oddball Interview Questions of 2010
While we all know the interview process can seem like a bit of a stressful process, for some it can be downright grueling! We've culled through tens of thousands interview questions that job seekers from around the world have shared on Glassdoor over the past year and found some pretty off the wall stuff. Check at http://bit.ly/hor8Ot for the top 25 oddball interview questions of 2010.

20 predictions for the next 25 years
From the web to wildlife, the economy to nanotechnology, politics to sport, the Observer's team of experts prophesy how the world will change – for good or bad – in the next quarter of a century. Read the full story at http://bit.ly/ejQ2Fh

Understanding the strategic value of IT in M&A
Many mergers don't live up to expectations, because they stumble on the integration of technology and operations. But a well-planned strategy for IT integration can help mergers succeed. Read the article at http://bit.ly/eddyAQ

Data to dollars: Supporting top management with next-generation executive information systems
Chief information officers have a chance to expand their influence as the mediators between business requirements and IT capabilities. Read the story at http://bit.ly/e1OCS7

DQ Top 20 Articles of 2010
DataQuest, the fortnightly magazine from Cyber Media presents the list of most popular articles online in terms descending order of their pageviews, See the list at http://bit.ly/g6yc8K and read the articles.

Book: Invisible Engines: How Software Platforms Drive Innovation and Transform Industries by David S. Evans, Andrei Hagiu and Richard Schmalensee
Software platforms are the invisible engines that have created, touched, or transformed nearly every major industry for the past quarter century. They power everything from mobile phones and automobile navigation systems to search engines and web portals. They have been the source of enormous value to consumers and helped some entrepreneurs build great fortunes. And they are likely to drive change that will dwarf the business and technology revolution we have seen to this point. *Invisible Engines* examines the business dynamics and strategies used by firms that recognize the transformative power unleashed by this new revolution—a revolution that will change both new and old industries. Download this 408 pages (3.99 MB) book published by MIT Press and licensed under a Creative Commons License from http://bit.ly/ezeeK4

Facebook Fellowship Program
Every day Facebook confronts the most complex technical problems and we believe that close relationships with the academy will enable us to address many of these problems at a fundamental level and solve them. As part of our ongoing commitment to academic relations, we are pleased to announce the continuation of the Facebook Fellowship program to support graduate students in the 2011-2012 school year. Each Facebook Fellowship includes: Tuition and fees will be paid for the academic year; $30K stipend (paid over 9 months of the academic year); $5K per year toward conference attendance and travel; $2.5K toward a personal computer and Opportunity to apply for a paid summer internship. This year Facebook will be accepting applications from Ph.D. students studying at international universities in addition to applications from PhD students studying in the United States. Last date to apply: 28th Feb 2011. More details at http://on.fb.me/gkGQAk

ACM-W Scholarships for Attending Research Conferences
ACM-W, with funding from Wipro Technologies, provides support for women undergraduate and graduate students in Computer Science and related programs who wish to attend research conferences. Exposure to the CS research world can be an important factor in encouraging a student to continue on to the next level (Undergraduate to Graduate, Masters to Ph.D., Ph.D. to an industry or academic position). The student does not have to present a paper at the conference she attends. As of 2011, twenty ACM-W/Wipro scholarships will be funded annually: ten scholarships of up to $600 will be awarded for intra-continental conference travel, and ten scholarships of up to $1200 will be awarded for intercontinental conference travel. 15th Feb 2011 is the application deadline for attending the conferences to be held during 1st Apr to 31st May. More details at http://bit.ly/fjEp2R

Fellowship Application Round Opens for ICANN Public Meeting 41 in Amman, Jordan

The Internet Corporation for Assigned Names and Numbers is launching the 13th round of the Fellowship program applications for its 41st Public Meeting to be held Amman, Jordan on 19-24 June 2011. Priority in selection is given to applicants who are current residents of developing and least developed nations and interested in participating in ICANN and its supporting organizations and constituencies, or are representatives in the Business, Academic and Private sector looking to find support and gain information on how to have their voices heard in the Internet community and ICANN. The Fellowship program will assist in covering airfare, hotel and a stipend for those individuals selected to participate in this ICANN meeting. Recipients will be expected to actively participate in and contribute to ICANN processes, both at the meeting and in the future. Applications for the meeting in Jordan will be accepted from 00:00 UTC on 17 January 2011 until 00:00 UTC on 26 February 2011. Details at http://www.icann.org/en/fellowships/

International Fulbright Science & Technology Award 2011, USA:

The Bureau of Educational and Cultural Affairs (ECA) of the U.S. Department of State sponsor the International Fulbright Science & Technology Award for Outstanding Foreign Students (Fulbright S&T) to provide exceptional foreign students with an opportunity to pursue Ph.D. study at top U.S. universities. Applications for the competition will be accepted starting February 1, 2011. Details at http://bit.ly/hOt3Zw

Quotes of Confucius

- Ability will never catch up with the demand for it.
- Be not ashamed of mistakes and thus make them crimes.
- Before you embark on a journey of revenge, dig two graves.
- By three methods we may learn wisdom: First, by reflection, which is noblest; Second, by imitation, which is easiest; and third by experience, which is the bitterest.
- Choose a job you love, and you will never have to work a day in your life.
- Do not impose on others what you yourself do not desire.
- Everything has beauty, but not everyone sees it.
- Forget injuries, never forget kindnesses.
- He who learns but does not think, is lost! He who thinks but does not learn is in great danger.
- He who speaks without modesty will find it difficult to make his words good.
- Hold faithfulness and sincerity as first principles.
- I hear and I forget. I see and I remember. I do and I understand.
- Silence is a true friend who never betrays.
- What you do not want done to yourself, do not do to others.
- Wisdom, compassion, and courage are the three universally recognized moral qualities of men.

Interesting Confusions

- Can u cry under water?
- Do fish ever get thirsty?
- Why don't birds fall out of trees when they sleep?
- What do u call a male lady bird?
- Why is it called building when it's already built?
- When they say dog food is new & improved in taste, who tastes it?
- If money doesn't grow on trees then why banks have branches?
- Why does a round pizza come in square box?
- Why doesn't glue, stick to its bottle;-)..! !
- How come "abbreviated" is such a long word?

ICT News Headlines & Briefs

- Gartner identified the top 30 countries for globally sourced activities in 2010-11 based on the rating of the 10 criteria — language, government support, labour pool, infrastructure, educational system, cost, political and economic environment, cultural compatibility, global and legal maturity, and data and intellectual property security and privacy. The leading emerging offshore locations in the Asia-Pacific region were Bangladesh, China, India, Indonesia, Malaysia, the Philippines, Sri Lanka, Thailand and Vietnam.
- Cisco Systems and Apollo Hospitals are jointly working on a telemedicine project to help doctors connect with patients through a laptop or any other mobile device from anywhere in the world
- Infosys revised its hiring guidance to 40,000 from 36,000 in the second quarter of 2010-11. So far given out offers to 20,000 students for the next year though the salaries at around Rs 3.5 lakh
- Internet services provider Spectranet is planning to invest Rs 100 crore over the next 12 months in a bid to ramp up its broadband infrastructure.
- Private telcos may join PSUs in broadband rollout.

- Quick Heal Technologies launches service to locate laptops with a unique physical ID.
- IIT-Madras plans centre to design, make microchip.
- The core group on electronic hardware (Carel) set up by the Government is in the early stages of formulating projects with a view to developing pre-competitive applied research -- Mr Ajai Chowdhry, Chairman, HCL Infosystems.
- The Telecom Regulatory Authority of India (TRAI) will appoint an external consultant to assist in establishing appropriate policy and regulatory framework on Next Generation Networks (NGN).
- IT industry awaits Srikrishna report with bated breath as the IT industry, which registered exports of Rs 36,000 crore in 2009-10, took the maximum hit as the violent movement for and against a separate statehood for Telangana rocked the State last year.
- Intel chief bets big on smart TV, tablet markets.
- BlackBerry-maker agrees to set up local servers but with riders.
- Mahindra Satyam accounts are current, but legal issues still a worry.
- Satyam scam: CBI suspects illegal funds transfer to destinations abroad.
- No loss to Govt from 2G spectrum allocation: Sibal. Sibal has got it wrong, say experts.
- Delhi court says petition against Raja 'maintainable'.
- MNCs offer staff part-time option — for lower pay, of course.
- Steps on to improve infrastructure in Vizag's IT Special Economic Zones.
- Japan is next big target for IT majors.
- Swamy to move apex court to restrain Sibal from dealing in 2G issue.
- The IT@School project and ViCTERS (Virtual Classroom Technology on Edusat for Rural Schools), the complete educational channel of the Kerala State Government, to launch a weekly half-hour programme called 'IT for All.'
- Apex court issues notice to Centre, 11 cos on cancellation of 2G licences.
- iGATE buys 63% in Patni for $921m.
- Cyber Media, IDC split; plan new research units.
- Hexaware Technologies intends to hire over 200 fresh software professionals every quarter during the current calendar year.
- iGATE makes open offer for 20.6% stake in Patni.
- Hexaware announces 1:1 bonus.
- Airtel in pact with SBI for mobile banking services.
- 6,300 H-1B visas still remain in 2011 pool.
- Panel on 2G gets time till Jan 31.
- DoT revokes ban on 3G video calls.
- Infosys Q3 net rises 14.2%; yet cautious.
- Global IT purchases will touch $1.7 trillion – Forrester Research.
- Kochi-based MindHelix Technologies launched 'Tuk Tuk' meter, a mobile application for calculating correct autorickshaw fare which uses GPS to calculate the distance travelled and the fare due.
- Wikipedia turns ten; users seek more regional content.
- Operators all set for Jan 20 rollout of pan-India number portability.
- CMC net surges 25% in Q3.
- Telemarketers to register online from today.
- Capgemini's gross hiring in India tripled in 2010 and exceeds 15000.

Announcements
- For CSI Calendar of Events, pl. visit http://www.csi-india.org/web/csi/csicalendar-december10
- Read the recent issue of CSI Student Centric ePublication "Adhyayan" at http://www.csi-india.org/web/csi/adhyayan-october2010
- Project Proposals are invited from faculty Members and Students under the scheme of R&D Funding for the year 2010-11 by CSI. For details, visit www.csi-india.org
- To join CSI as a member, pl. visit http://www.csi-india.org/web/csi/membership
- If you are interested in talking on your area of competence at CSI chapters, pl. register as a distinguished speaker at http://www.csi-india.org/web/csi/email

IT Events: Call for Participation & Call For Papers
- CISSP Bootcamp. 22-23 & 29-30 Jan 2011 at Chennai. Contact: Govindarajan 9962550705 govi.sub@gmail.com
- Strategic IT Management. 24-28, Jan 2011 at IIM Ahmedabad. Pl. contact: Prof. Rajanish Dass, mdp@iimahd.ernet.in or call at 079-6632 4072-77.
- CSI Science & ICT Quiz: Across India in 8 cities during Feb-Mar, 2011. For details, pl. contact Mr. Ranga Rajagopal, acenettech@gmail.com / +91 9442631004. www.csidiscoverthinking.com

- NCCSE-2011: 2nd National Conference on Computational Science and Engineering. 4-5, Feb 2011 at Kochi. Email: mca.rajagiri@gmail.com / jayamahesh99@yahoo.co.in Website: www.rajagiri.edu
- FutureNet-2011: Internet – Present and Future Applications, Services, Security and Challenges. 5-6, Feb 2011 at Nashik. Contact: Mr. Arvind Mahapatra at arvind.m@netwinindia.com / Mobile: 09822431258
- Workshop on Research Methods. 19-20 at Chennai. Fee: Academic Faculty: Rs. 1000/=; Industry Delegates: Rs. 1250/=; Students & Research Scholars: Rs. 800/=; Members of CSI / IEEE: Rs. 800/=.Contact: Dr. P. Sakthivel, Chairman, CSI Chennai, sakthi_velp@yahoo.com Mobile: +91 94444 12789 www.csi-chennai.org/ws-rm/index.html
- CONSEG-2011: International Conf. on Software Engineering. 17-19, Feb 2011 at Bangalore. www.conseg2011.org
- NCISE-2011: 3rd National Conference on Information and Software Engineering. 18-19, Feb 2011 at AVIT, Chennai. Contact: Dr. A. Anthony Irudhayaraj, Cell: 09443884732, Email: ncise2011@gmail.com Website: www.http://ieeecs-ncise.com/
- National Seminar on "Corporate eGovernance". 26-28, Feb 2011at Visakhaptnam. Pl. contact: Mr. P. Satyanarayana at s_paramata@vizagsteel.com / Mobile: +91 9949556989
- NCVESCOM-11: 4th National Conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies. 7 –8, Apr 2011 at Chennai. www.avit.ac.in
- ACC-2011: International Conference on Advances in Computing and Communications. 22-24, Jul 2011 at Kochi, India. www.acc-rajagiri.org

Call For Journal Papers:

Special Issue on "Cloud Computing for Emerging Regions: Prospects and Challenges" of the International Journal on Advances in ICT for Emerging Regions (ICTer) to be published in Sep 2011. Paper submission deadline: 28th Feb 2011. Dr. San Murugesan, Associate Editor, ICTer Journal, University of Western Sydney & BRITE Professional Services, Australia who has been a resource persons at the CSI & IEEE events is the Guest Editor of this special issue. More info at: www.icter.org

Books

Brief review of books useful to both students and professionals are included under this column. The publishers -- Oxford University Press and Shroff Publishers & Distributors Pvt Ltd have come forward to present the books to the winners of the Info Quiz.

Bioinformatics: Databases, Tools and Algorithms (with CD): This book is intended to serve as a introductory text on Bioinformatics for the students of Information Technology and Life Sciences. The book presents the subject in four parts. The Part A provides a basic introduction to Bioinformatics and present scene in India including human resources development in this area. Part B introduces the databases and methods to store, access and retrieve information and then deals with sequence, structure and other databases. Part C covers tools for data submission, analysis, prediction and modeling. The last part, Part D discusses on algorithms that are used in bioinformatics and its tasks. Appendices on biological and computational resources and the end chapter exercises are useful for understanding the subject. The accompanying CD has the colour images of the figures, 3D models and data needed to solve the exercises. Authors: Orpita Bosu & Simminder K Thukral. Published by: Oxford University Press. Pages: 588+xiv. Price: Rs.425/- More about the book at http://bit.ly/hDXmIR (This book is being given as a prize to the Info Quiz Winners)

Leadership and Team Building: The book intended for PG student of Management and Professionals. The two major themes -- leadership and team building are covered in twelve well-integrated chapters in two parts. Leadership - A Conceptual Background; Attributes of Leaders; Perspectives on Effective Leadership Behaviour; Theories of Effective Leadership; Contemporary Leadership Styles; Motivation, Satisfaction, and Performance; Leadership Behaviour—Dimensions and Assessment; Leadership Development; Essentials of Building and Managing Teams; Team Effectiveness; Research Findings and Training; and Team Building -Activities and Outcomes. The appendices Biographies of Organisational Leaders and Understanding Followership are very useful. End chapter summary, key terms, exercises, resources and case studies enhances the understanding. Author: Uday Kumar Haldar. Published by: Oxford University Press. Pages: 492+xvi. Price: Rs.345/- More about the book at http://bit.ly/ehK0np (This book is being given as a prize to the Info Quiz Winners)

97 Things Every Programmer Should Know: This book provides 97 short and extremely useful programming tips from some of the most experienced and respected practitioners in the industry. The tips cover broad categories such as Bugs and Fixes; Build and Deployment; Coding Guidelines and Code Layout; Design Principles and Coding Techniques; Domain Thinking; Errors, Error Handling and Exceptions; Learning, Skills and Expertise; Nocturnal or Magical; Performance, Optimization, and

Representation; professionalism, Mindset, and Attitude; Programming Languages and Paradigms; Refactoring and Code Care; Reuse Versus Repetition; Schedules, Deadlines and Estimates; Simplicity; Teamwork and Collaboration; Test, Testing and Testers; Tools, Automation, and Development Environments; and Users and Customers. These tips encourage you to stretch yourself by learning new languages, looking at problems in new ways, following specific practices, taking responsibility for your work, and becoming as good at the entire craft of programming as you possibly can. This wealth of practical knowledge contains principles that apply to projects of all types. You can read the book end to end, or easily browse through to find topics of particular interest. In essence, this book is a useful reference and a source of inspiration. Edited by Kevlin Henney. Published by: Shroff Publishers & Distributors Pvt Ltd. Pages: 230+xiv. Price: Rs. 300/- More about the book at http://bit.ly/eTL2Ht Readers of CSI-eNL can get this book at 15% discount with free shipping. Contact: spdchennai@shroffpublishers.com (This book is being given as a prize to the Info Quiz Winners)

Time Out for Leaders: This **"**page-a-day" book of daily readings gives leaders a chance to spend a few moments to refocus, refresh, and review how they are doing. Provocative, insightful, multicultural quotes, a short think-piece, and an action item engage and challenge leaders and re-set their spiritual clocks. Ten minutes of personal reflection can make a huge difference each day. This book of daily inspiration for maximum impact is to stimulate your own thinking and growth. Authors: Donald Luce and Brian McDermott. Published by: Shroff Publishers & Distributors Pvt Ltd. Pages: 272. Price: Rs.325/- More about the book at http://bit.ly/fTJQeU Readers of CSI-eNL can get this book at 15% discount with free shipping. Contact: spdchennai@shroffpublishers.com (This book is being given as a prize to the Info Quiz Winners)

InfoQuiz–2011-01-16 (Six Prizes to Win – Four Books and Two Awards of Rs. 500/- each)

1. Name the IT major to break 5,000-Patent Mark in a single year 2010
2. What is common: GetJar, PocketGear, AndroLib, MobiHand
3. Name the author of the book "The Big Switch: Rewiring the World, from Edison to Google:"
4. Identify the company whose tagline is "Nothing Like Anything".
5. Name the first commercial Internet domain name registered in March 1985.

Email your answers by **30th Jan 2011** to csi.infoquiz@gmail.com **with subject "infoquiz-2011-01-16".** Please provide your name, designation, company/institution, full postal address (to send the prize) and the contact phone nos. after the answers. The first person to answer correctly and one randomly selected lucky winner will be awarded Rs. 500/= each by **SRA Systems** (www.srasys.com). **Oxford University Press** (http://www.oup.co.in) & **Shroff Publishers & Distributors Pvt Ltd** (http://www.shroffpublishers.com) will present the books (Bioinformatics: Databases, Tools and Algorithms (with CD), Leadership and Team Building, 97 Things Every Programmer Should Know, Time Out for Leaders) whose brief review appear in this issue. In all, there will be SIX prizes – TWO cash prizes of Rs. 500/- each and FOUR prizes of one book each. Answers along with the winner info will be published in the next issue.

Answers & Winners of InfoQuiz-2011-01-01
- edustrokes.com / careerstorkes.com, Mark Zuckerberg, Stuxnet, HTC, William Gibson
- Awards of Rs. 500/= each from SRA Systems: Mr. K. Jaiganesh from Karur and Mr. B. Sundaram from Chennai.
- Books from Oxford University Press: "Information Technology for Management" to Mr. G. Suresh from Madurai & "Web Technologies" to Mr. Srikanth Thalla from Hyderabad.
- Books from Shroff Publishers & Distributors Pvt Ltd: "Hard-Knocks Communication: Thirty Six Timeless Rules for Success" to Ms. Sajal Goel from Faridabad & "The PMP Exam - How To Pass On Your First Try" to Mr. Chandravadan M. Prajapati from Navi Mumbai.

About the CSI-eNewsletter
CSI-eNewsletter is a compilation of information from different sources which would be of interest to ICT professionals, academicians and students and published on 1st and 16th of every month. While adequate care has been taken to ensure the accuracy of links provided, we do not accept any liability. For the archives of this newsletter, pl. visit http://www.csi-chennai.org/csi-enl/csi-enl-archives.htm or at http://www.csi-india.org/web/csi/archives

Contributions to CSI-eNewsletter
Readers are welcome to contribute to the eNewsletter by sharing interesting information they come across and also provide feedback, by emailing us at hrmohan.csi@gmail.com
----
eNewsletter Committee
Mr. H. R Mohan (hrmohan.csi@gmail.com) & Mr. Pavan Kota (pavankota@kinduz.com)